

Missouri Water Utility Partnership - July 8, 2010



Project Size: \$ 7,000,000

Annual Savings				
City	kilowatt Hours Electricity	Hundred Cubic Feet Natural Gas or Propane	Mgals Water	Dollars
Harrisonville	360,917	N/A	N/A	To Be Determined



Wastewater Treatment Plant Improvements

- Course bubble diffusers in aeration basins being replaced with fine air diffusers which use less power
- Computer system (SCADA) will regulate air flow based on data from dissolved oxygen probes
- Headworks Building equipment being replaced & process being modified which substantially reduces power use
- New energy efficient blowers being installed in aerobic digesters

New Building Construction

- New lab, office, training and break room being added to Compressor Building
- All new electrical cables, lighting and HVAC in new & upgraded buildings create substantial energy efficiency over existing operations



Business Model:	Design – Build – Construct
Prime Contractor:	David E Ross Construction
Utility Partners:	None
Funding Sources:	(1)Missouri DNR SRF - \$ 4M (2) ARRA Grant - \$3M

This will prevent the following greenhouse gases from being released into the atmosphere



821,087 lbs
Carbon Dioxide
(CO2)



1,308 lbs
Nitrogen Oxide
(NOx)



3,181 lbs
Sulfur Dioxide
(SO2)

Your greenhouse gas emissions savings are equivalent to:



3

Acres of forest preserved from deforestation



2

Railcars of coal burned



69

Cars removed from the road for one year



867

Barrels of oil burned

